

Measurements of Atmospheric Neutrinos using the MINOS Detector.

This poster presents the latest atmospheric neutrino results from the MINOS experiment. The results are based on a data set of 1657 live-days, and combine together observations of contained vertex neutrino interactions and neutrino-induced upward muons in the MINOS far detector. The measured curvature of muons in the MINOS magnetic field is used to separate neutrinos and anti-neutrinos, and the observed ratio of neutrinos to anti-neutrinos is compared to the Monte Carlo expectation. The data are separated into bins of L/E resolution, and a maximum likelihood fit to the observed L/E distributions is used to determine the oscillation parameters separately for neutrinos and anti-neutrinos. Confidence limits are placed on the difference between these oscillation parameters.

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